

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appin. No: 10/522,059
Applicant: Jun Shinozaki et al.
Filed: January 20, 2005
Title: METHOD OF MANUFACTURING
PLASMA DISPLAY PANELS
T.C./A.U.: 1792
Examiner: Rakesh Kumar Dhingra
Confirmation No.: 1894
Docket No.: MAT-8640US

INTERVIEW SUMMARY

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

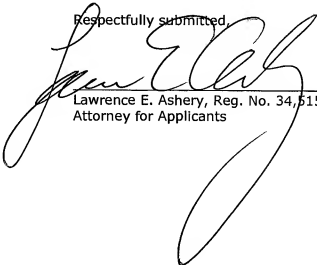
Applicants acknowledge with thanks the courtesy extended to their representative by Examiner Dhingra during the telephone interview of August 7, 2009.

During the course of the interview, Applicants' representative explained the following:

- 1) On July 13, 2009, an amendment was fax filed with the USPTO. The amendment included formality errors.
- 2) On July 13, 2008, a second amendment was fax filed with the USPTO. The second amendment corrected the formality errors that appeared in the first amendment.
- 3) The IFW shows a copy of the first fax filed amendment. The second fax filed amendment does not appear in the IFW.
- 4) A copy of the second amendment fax filed on July 13, 2009 is enclosed with this interview summary.

5) The Examiner is respectfully requested to enter the second amendment that was fax filed on July 13, 2009, a copy of which is enclosed with this Interview Summary. Examination should occur on the copy of the amendment that is enclosed with this Interview Summary.

Respectfully submitted,



Lawrence E. Ashery, Reg. No. 34,515
Attorney for Applicants

LEA/dmw

Enclosure: Copy/Amendment

Dated: August 10, 2009

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FAX FILING IN U.S. PATENT & TRADEMARK OFFICEDATE: July 13, 2009

TIME: _____

TO:	USPTO	FAX NO.:	1-571-273-2885
FROM:	Lawrence E. Ashery	ADMIN. ASST.:	Donna M. Wellings
APPLN. NO.:	10/522,059	ATTY. DOCKET NO.:	MAT-8640US
TITLE OF APPLN.: METHOD OF MANUFACTURING PLASMA DISPLAY PANELS			
FILING DATE:	January 20, 2005	ART UNIT:	1792
FIRST INVENTOR:	Jun Shinozaki, et al.	CONF. NO.:	1894
TITLE OF DOCUMENT (and List of Attachments): Amendment			
Transmittal Form - Amendment			

Total Number of Pages: 9 (including this form)

COMMENTS

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Please notify us immediately if you have not received the number of pages indicated above.

TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/522,059
	Filing Date	January 20, 2005
	First Named Inventor	Jun Shinozaki, et al.
	Art Unit	1792
	Examiner Name	Rakesh Kumar Dhangra
Total Number of Pages in This Submission		Attorney Docket No. MAT-8640US

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/Declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks:		

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT	
Firm Name	RatnerPrestia
Signature	<i>Lawrence E. Ashery</i>
Printed Name	Lawrence E. Ashery
Date	July 13, 2009
Registration No.	34,515

CERTIFICATE OF TRANSMISSION	
I hereby certify that this correspondence is being facsimile transmitted to the USPTO on the date shown below:	
Signature	<i>Lawrence E. Ashery</i>
Typed or Printed Name	Lawrence E. Ashery
Date	July 13, 2009

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Office, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, ALEXANDRIA, VA 22313-1450.

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AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Responsive to the Office Action dated **March 13, 2009**, please amend the above-identified application as follows:

- ☐ **Amendments to the Specification** begin on page _____ of this paper.
- ☒ **Amendments to the Claims** are reflected in the listing of claims which begins on page **2** of this paper.
- ☐ **Amendments to the Drawings** begin on page _____ of this paper and include an attached replacement sheet(s).
- ☐ **Amendments to the Abstract** are on page _____ of this paper. A clean version of the Abstract is on page _____ of this paper.
- ☒ **Remarks/Arguments** begin on page _____ of this paper.

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method of manufacturing a plasma display panel, the method comprising the steps of:

providing a substrate holder above a source of deposition material, the substrate holder including:

a first frame for holding a substrate of the plasma display panel, said first frame holding the substrate has a protrusion extending from below a bottom surface of the substrate along a side surface of the substrate to a height above the substrate and greater than a height of the substrate without being superimposed over the top surface of the substrate; and

a second frame having an opening, the protrusion between the substrate and the opening so that the substrate is on one side of the protrusion and the opening is on the other side of the protrusion and an unobstructed path exists from said source of deposition material to a top surface of said substrate;

providing the plasma display panel which is held by the substrate holder for deposition;

spraying a said deposition material onto said plasma display panel bottom surface of said substrate from below the substrate;

and permitting an additional amount of said deposition material to flow through said opening from below the substrate.

2. (Previously Presented) The method of manufacturing a plasma display panel as defined in Claim 1, wherein a height of the protrusion is between 1 mm and 100 mm.

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3. (Previously Presented) The method of manufacturing a plasma display panel as defined in Claim 1, the first frame comprising holding means including support means for supporting the substrate from underneath and positioning means for positioning the substrate in a planar direction, wherein the substrate is held by fitting the substrate to the positioning means and placing the substrate on the support means.

4. (Currently Amended) A substrate holder system for a plasma display panel, the substrate holder system comprising:

a first frame for holding a substrate of the plasma display panel, said first frame being provided with a protrusion extending from below a bottom surface of the substrate along a side surface of the substrate to a height above the substrate greater than a height of the substrate without being superimposed over the top surface of the substrate,

a second frame having an opening, the protrusion between the substrate and the opening so that the substrate is on one side of the protrusion and the opening is on the other side of the protrusion;

and a source of deposition material below said substrate which sprays said deposition material towards the bottom surface of the substrate and through the opening;

wherein an unobstructed path exists from said source of deposition material to a top surface of said substrate.

5. (Previously Presented) The substrate holder system for a plasma display panel as defined in Claim 4, wherein a height of the protrusion is between 1 mm and 100 mm.

6. (Previously Presented) The substrate holder system for a plasma display panel as defined in Claim 4, the first frame comprising holding means including support means for supporting the substrate from underneath and positioning means for positioning the substrate in a planar direction, wherein the substrate is held by

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fitting the substrate to the positioning means and placing the substrate on the support means.

7. (Previously Presented) The substrate holder system for a plasma display panel as defined in Claim 4, wherein the first frame includes a plurality of supports separated from each other which extend below the bottom surface of the substrate.

8. (Previously Presented) The substrate holder system for a plasma display panel as defined in Claim 4, said second frame maintained with said opening while said substrate is situated in said first frame.

9. (Previously Presented) A method of manufacturing a plasma display panel as defined in Claim 1, wherein the protrusion curves away from the substrate.

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Remarks/Arguments:

Claims 1, 2, 4, 5, and 8 have been rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art in view of Yamazaki (US 2002/0132047) and Spahn (US 6,237,529). It is respectfully submitted, however, that these claims are patentable over the art of record for the reasons set forth below.

Page 9, line 25 of Applicants' specification explains that generated vapor flow 38e is deposited on the surface of substrate 13. Applicants' Fig. 2 shows that the vapor flow forms protective layer 18 on the bottom of the substrate.

Page 11, line 11 of Applicants' specification states:

...a proportion of the deposition material passing through opening 4 of substrate holder 1 reaches and deposits on non-deposition face 13b of substrate 13. However, protrusion 5...suppresses this phenomenon.

Thus, Applicants' claim 1 now recites the feature of:

...an unobstructed path exists from said source of deposition material to a top surface of said substrate...

Yamazaki was cited in the outstanding office action as teaching a protrusion that extends to a height above Yamazaki's substrate. This protrusion appears in Fig. 1 of Yamazaki. This protrusion, however, creates an obstruction between his source of deposition material and the top surface of his substrate. Thus, one of ordinary skill in the art would not rely on Yamazaki to obtain Applicants' claim 1.

Spahn was also cited in the outstanding office action as teaching a protrusion that extends to a height above Spahn's substrate. Applicants respectfully disagree as Fig. 4 of Spahn appears to show protrusions that extend only below his substrate (i.e. not above). In addition, Spahn's protrusions 104 create obstructions between his source of deposition material and the top surface of his substrate. Thus, one of ordinary skill in the art would not rely on Spahn to obtain Applicants' claim 1.

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Applicants' admitted prior art lacks any teaching of Applicants' claimed protrusion. That is why the rejection attempted to combine the admitted prior art with other references.

Accordingly, the combination of references cited in the outstanding office action neither discloses nor suggests Applicants' claim 1. Withdrawal of the rejection is respectfully requested.

Claim 4, while not identical to claim 1 is also patentable over the art of record for reasons similar to those set forth above with regard to claim 1.

Claims 2, 5 and 8 are patentable by virtue of the dependency on allowable claims 1 and 4.

In view of the arguments set forth above, allowance of claims 1, 2, 4, 5, and 8 is respectfully requested.

Claims 3, 6, 7 and 9 have been rejected under 35 U.S.C. 103(a) by combining applicants' admitted prior art, Yamazaki, and Spahn with other references of record. These claims, however, are patentable by virtue of their dependency on allowable independent claims.

In view of the amendments and arguments set forth above, this application is

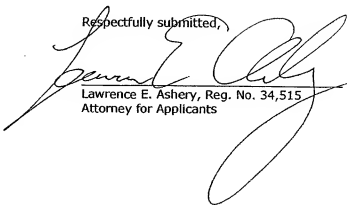
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in condition for allowance which action is respectfully requested.

Respectfully submitted,



Lawrence E. Ashery, Reg. No. 34,515
Attorney for Applicants

LEA/dmw

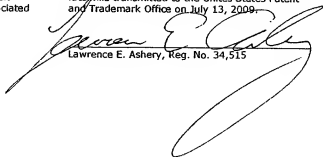
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Lawrence E. Ashery, Reg. No. 34,515